MAX. BACKFILL A) #4 0 4 U C #4 @ #4 0

2)

LIQUID-TIGHT JOINT _ C.J. = CONSTRUCTION JOINT YES

8

LIQUID-TIGHT JOINT OPTIONS

NON-METALIC WATERSTOP (PVC)

HYDROPHILIC WATERSTOP



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CONSTRUCTION JOINT OPTIONS

WAL

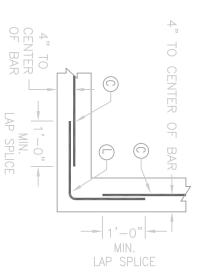
CORNER DETAIL (PLAN VIEW)

Date

<u>06/23/0</u>5

. IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.

THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.



RESTRAINING SLAB OPTIONS SLAB CORNER DETAILS

SEE

PA-023 PA-024

GENERAL DESIGN NOTES:

- *DRAINAGE SHALL BE AWAY FROM THE WALL. *THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL SHALL THE BACKFILL HEIGHT. BE EQUAL TO OR GREATER THAN
- MAXIMUM FOOTING CONTACT PRESSURE IS 655 psf/ft.

 $\frac{\text{DESIGN STRENGTHS:}}{\text{CONCRETE}} \quad \text{WORKING STRENGTHS:}$ WORKING STRESS DESIGN 00 psi \circ STEEL f_S =

 $f_S = 20,000 \text{ psi}$ (GRADE 40)

WALL DESIGN LOADING: 313 STANDARD — LATERAL EARTH PRESSURE VALUES,

SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

*MANURE LOAD INSIDE = 65 psf/ft.

*SOIL BACKFILL LOAD OUTSIDE = 75 psf/ft.

*NO SURCHARGE LOAD

*SOIL BACKFILL DENSITY = 110 pcf.

*WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

* CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS. * SUBSTITUTION OF GRADE 60 BARS IS PERMITTED. * MINIMUM SPLICE LENGTH FOR MARK (B) AND (C) BARS IS 12"

STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

STEEL #4 CONCRETE

(0.668 LBS./FT)

(0.1708 CU.YDS./LIN.FT.)

_CU.YDS. LBS.

ESTIMATED QUANTITIES

- WALL RESTRAINT REQUIREMENTS:
 -5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 MIN.

MARK

SIZE

QUAN | TYPE

70

S

TOTAL LENGTH

TOTAL LENGTH OF WALL

6,-6 LENGTH SCHEDULE

STR STR

#4 BARS,

TOTAL LENGTH

TYPE 2 BAR

NOTES:

DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.

BACKFILL OF 2 FEET IS RECOMMENDED FOR FROST PROTECTION.

SLAB LENGTH FULL INSIDE LOAG NO SLAB NO SLAB NO SLAB NO SLAB
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THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURAL, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717-2906

(ADAPTED FROM WI-533, APRIL 2005)

File No. PA-019D PA-019D 07/06/07



COUNTY, PENNSYLVANIA

3' HIGH, 8" L-WALL (W/O SURCHARGE)